

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Andreas Bögel Jörg Seeger Hans-Achim Kuhn John F. Breedis Ronald N. Caron Derek E. Tyler	Docket:	102147-300
Serial No.:	N.A.	Art Unit:	N.A.
Filed:	Herewith	Examiner:	N.A.
Assignee:	Olin Corporation and Wieland-Werke AG		
Title:	SILVER CONTAINING COPPER ALLOY		

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, please find enclosed an Information Disclosure Statement, Form PTO-1449 and one copy of each cited reference. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No certification or fee is required.
- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
- ☐ a. Each item of information contained on Form PTO-1449 filed herewith was cited in a communication from a foreign patent office in a counterpart foreign

application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(1); and no fee is required under 37 C.F.R. §1.17(p).

☐ b. No item of information cited on Form PTO-1449 filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2); and no fee is required under 37 C.F.R. §1.17(p).

☐ Please charge Deposit Account No. 23-1665 in the amount of \$180.00 in payment of the fee under 37 C.F.R. §1.17(p). Two additional copies of this Information Disclosure Statement are enclosed.

☐ A check in the amount of \$180.00 is attached hereto in payment of the fee under 37 C.F.R. §1.17(p).

☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. It is hereby requested that the Information Disclosure Statement be considered.

☐ a. Each item of information contained on Form PTO-1449 filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(1).

☐ b. No item of information cited on Form PTO-1449 filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. §1.97(e)(2).

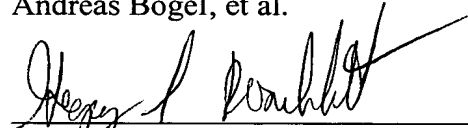
☐ Please charge Deposit Account No. 23-1665 in the amount of \$130.00 in payment of the fee under 37 C.F.R. §1.17(i)(1). Two additional copies of this Information Disclosure Statement are enclosed.

☐ A check in the amount of \$130.00 is attached hereto in payment of the fee under 37 C.F.R. §1.17(i)(1).

The undersigned represents that the closest art of which he is presently aware has been cited herein and understands that this statement shall not be construed as a representation that no better art exists or that a thorough patentability search has been made.

The undersigned further represents that the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

Respectfully submitted,
Andreas Bögel, et al.



Gregory S. Rosenblatt
Reg. No. 32,489

Date: February 19, 2004
WIGGIN & DANA LLP
One Century Tower
New Haven, CT 06508-1832
Telephone: (203) 498-4566
Facsimile: (203) 782-2889

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Andreas Bögel Jörg Seeger Hans-Achim Kuhn John F. Breedis Ronald N. Caron Derek E. Tyler	Docket:	102147-300
Serial No.:	N.A.	Art Unit:	N.A.
Filed:	Herewith	Examiner:	N.A.
Assignee:	Olin Corporation and Wieland-Werke AG		
Title:	SILVER CONTAINING COPPER ALLOY		



INFORMATION DISCLOSURE STATEMENT

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

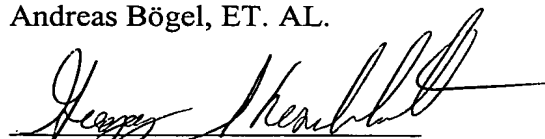
Dear Sir:

In keeping with the duty of candor and good faith owed to the Patent and Trademark Office, Applicant wishes to make of record the items on attached PTO Form 1449 which were considered in the prosecution of parent patent United States Patent Application Serial Number 09/923,137.

The undersigned represents that the closest art of which he is presently aware has been cited herein and understands that this statement shall not be construed as representation that no better art exists or that a thorough patentability search has been made.

Respectfully submitted,
Andreas Bögel, ET. AL.

Date: February 19, 2004
Reg. No. 32,489

A handwritten signature in black ink, appearing to read 'Gregory S. Rosenblatt', written over a horizontal line.

Signature of Attorney
Gregory S. Rosenblatt
WIGGIN & DANA LLP
One Century Tower
New Haven, CT 06508-1832
Telephone: (203) 498-4566
Facsimile: (203) 782-2889

\\10070\\102\\451012.1

INFORMATION DISCLOSURE	ATTY. DOCKET NO. 102147-200	SERIAL NO. 09/923,137
	APPLICANT: ANDREAS BOGEL, ET AL.	
	FILING DATE: AUGUST 6, 2001	GROUP: 1742

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPR.
	5147469	9/92	Kanzaki et al.	148	684	
	5315152	5/94	Kuse et al.	257	677	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	JP57051253	3/82	Japan				
	JP59193233	11/84	Japan				
	JP60218440	11/85	Japan				
	JP61183426	8/86	Japan				
	JP62050426	3/87	Japan				
	JP63130739	6/88	Japan				
	JP63310930	12/88	Japan				
	JP01198439	8/89	Japan				
	JP03188247	8/91	Japan				
	JP09025528	1/97	Japan				
	JP11080863	3/99	Japan				
	JP11293367	10/99	Japan				
	JP11335800	12/99	Japan				
	JP2000073130	3/00	Japan				
	WO00/29632	5/00	WIPO				

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

ASM Handbook, Volume 2 "Properties and Selection: Nonferrous Alloys and Special Purpose Materials, 1990, pages 290-291

EXAMINER:

DATE CONSIDERED:

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Notice of References Cited			Application No. 09/923,137		Applicant(s) Bogel et al	
			Examiner S. Jp		Group Art Unit 1742	Page 1 of 1

U.S. PATENT DOCUMENTS					
*	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS
A					
B					
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					

FOREIGN PATENT DOCUMENTS						
*	DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
N	2000280428	3/21/00	JP	Ogura	-	-
O	03072045	3/27/91	JP	Toe	-	-
P	02163331	6/22/90	JP	Hirano et al	-	-
Q	200063968	2/29/00	JP	Ogura	-	-
R						
S						
T						

NON-PATENT DOCUMENTS	
*	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)
U	
V	
W	
X	

* A copy of this reference is not being furnished with this Office action.
(See Manual of Patent Examining Procedure, Section 707.05(a).)

INFORMATION DISCLOSURE	ATTY. DOCKET NO. 102147-200	SERIAL NO. 09/923,137
	APPLICANT: BOGEL, ANDREAS	
	FILING DATE :08/06/2001	GROUP: 1742

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT No.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPR.
	3,677,745	7/72	Walter L. Finlay	75	153	2/24/69
	5,370,840	12/94	Ronald N. Caron, et al	420	492	10/18/93

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT No.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	EP 0784099 A2	7/97	EPO	C22C	9/00	NO	
	EP 1063309 A2	12/00	EPO	C22C	9/00	YES	
	63-038561	2/88	Japan	C22F C22C	1/08 9/00	NO	
	64-028337	1/89	Japan	C22C	9/06	NO	

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

EXAMINER:		DATE CONSIDERED:
-----------	--	------------------

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\\10070\\102\\356748.1

SUPPLEMENTAL INFORMATION DISCLOSURE			ATTY. DOCKET NO. 102147-200		09/923,137	
			APPLICANT: OLIN CORPORATION			
			FILING DATE: AUGUST 6, 2001		GROUP: 1742	
U.S. PATENT DOCUMENTS						
EXAMINER INITIALS	DOCUMENT No.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPR.
FOREIGN PATENT DOCUMENTS						
EXAMINER INITIALS	DOCUMENT No.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	JP59193233 A	11/1/84	Japan			X
	JP 62133050 A	6/16/87	Japan			X
	JP 62202038 A	9/5/87	Japan			X
	JP 62182240 A	8/10/87	Japan			X
	JP 04221031 A	8/11/92	Japan			X
	JP 09263864 A	10/7/97	Japan			X
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)						
International Search Report dated 02 November 2001 Under PCT Rule 44.1						
EXAMINER:				DATE CONSIDERED:		
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						

FORM PTO-1449

<p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p>	<p>Attorney Docket No. 102147-200</p>	<p>SERIAL NO. not assigned</p>
<p>APPLICANT: Bögel, Andreas, et al</p>		
<p>FILING DATE: herewith</p>		<p>GROUP: not yet assigned</p>

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPR.
	2,033,709	3/1936	Hensel, et al			
	2,127,596	8/1938	Hensel, et al			
	3,677,745	7/1972	Finlay, et al			
	3,778,318	12/1973	Finlay, et al			
	4,362,579	12/1982	Tsuji.			
	4,605,532	8/1986	Knorr, et al			
	4,612,166	9/1986	Brock			
	4,678,637	7/1978	Duerrschnabel, et al			
	4,810,468	3/1989	Duerrschnabel, et al			
	5,004,520	4/1991	Tsuji, et al			
	5,024,814	6/1991	Futatasuka et al			
	5,032,358	7/1991	Helenius			
	5,306,465	4/1994	Caron et al			
	5,370,840	12/1994	Caron et al			
	5,486,244	1/1996	Caron et al			
	5,565,045	10/1996	Caron et al			
	5,601,665	2/1997	Caron et al			
	5,833,920	11/1998	Nakanishi et al			

FOREIGN PATENT DOCUMENTS						
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION Yes No
	DE 196 00 864 C2	2/2000	Germany			X

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
1	"Standard Test Method for Bend Test for Formability of Copper Alloy Spring Material", ed. Feb. 1999, ASTM Designation: B 820-98, pages 802-804.
2	"Standard Test Method for Semi-Guided Bend Test for Ductility of Metallic Materials", ed. March 1992, ASTM Designation E 290-92, pages 432-435.
3	"Quality Function Deployment from the perspective of Competitive Advantage" by Edwin B. Dean, from http://mijuno.larc.nasa.gov/dfc/qfd.html , (4 pages).
4	"Comprehensive QFD from the Perspective of Competitive Advantage" by Edwin B. Dean, from http://mijuno.larc.nasa.gov/dfc/qfd.html , (4 pages).
5	<u>Silver-Bearing Copper</u> , Walter L. Finlay, Director of Research, Copper Range Company, NYC, Corinthian Editions 1968, Chapter II pages 7-9; Chapter III pages 10-60; Chapter IV pages 61-71.

EXAMINER:	DATE CONSIDERED:
-----------	------------------

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.